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THE ESTIMATED EFFECTS
OF VARIOUS POSSIBLE LEVELS
OF WESTERN CREDITS TO THE USSR



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THE ESTIMATED EFFECTS
OF VARIOUS POSSIBLE LEVELS
OF WESTERN CREDITS TO THE USSR

The recently initiated Soviet campaign for larger Western credits and longer repayment terms springs primarily from the requirements of Khrushchev's dramatic program to expand the chemical industry that was announced in December 1963. It is estimated that the equipment required for the plastics, fertilizer, and synthetic fibers industries would cost some \$5 billion, of which roughly \$2 billion worth would need to be imported from the West in order to approach fulfillment of the plan goals on schedule. Of this amount, \$1 billion probably could be financed without expanding the present level of credits or extending the terms of repayment, leaving \$1 billion in imports to be financed by additional Western credits. These amounts, however, do not cover the needs for other Western equipment required for expansion of related industries and for the planned modernization of Soviet industry in other sectors as well. Although there is no specifiable requirement for these needs, within practical limits, from a Soviet point of view, the more imports and the more credits the better.

In order to estimate the likely effect of more liberal Western credits to the USSR, a variety of possible alternative extensions has been considered. A continuation of the current level of about \$300 million annually -- to be repaid in 5 or 6 years -- would be of little added benefit to the USSR because past extensions have resulted in repayment obligations and interest charges that now approximate the annual extensions. At the other extreme, if the Soviet leaders could persuade the Western European nations and Japan to extend \$1 billion annually in new credits on 15-year repayment terms, the USSR would be able to add well in excess of \$3 billion worth of high-priority machinery and equipment to the quantities that could otherwise be imported. Such credits should be enough to provide the USSR with the quantities of Western chemical equipment that are needed -- over and above quantities produced in the USSR and the Eastern European Satellites.

The impact of any level of credits would be significantly greater than the dollar amount suggests. The imported equipment, embodying advanced technology, could be manufactured within the USSR only by diverting scarce manpower and technical resources away from high-priority national programs, including those for advanced weapons, and then only after a period of development that would retard the

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entire chemical program. The productive capacity of Western European and Japanese equipment firms would permit them to manufacture and export to the USSR advanced equipment up to the full amount of credits likely to be granted. In other words, the limitation on exports to the USSR is the extent of credits, not the ability of Western Europe and Japan to supply machinery.

Unless the Soviet economy falters, it should grow rapidly enough over the next 10 to 15 years to increase its exports to the West by about 5 percent a year. Under these conditions the USSR could service the necessary repayments on credits. The credits themselves would provide the USSR with additional productive capacity that would help to furnish the needed exports.

I. Alternative Credit Patterns

The tables contained in this publication present several projections of Soviet trade with the industrial West* under alternative assumptions as to the amount and repayment period of Western credit. Table 1 gives past and projected exports from the USSR to the industrial West, 1955-79. Tables 2 through 6 are projections of annual net credits after repayments and interest charges.**

Tables 7 through 11 contain projections of Soviet trade, both exports and imports. These are derived from the projections of exports in Table 1 and the projections of alternative credit patterns in Tables 2 through 6, plus the assumption that the USSR will sell \$150 million of gold annually after 1964.*** Shipping charges and other hard currency deficits are projected at a constant level of \$190 million. More than half of this amount consists of purchases from countries other than those of the industrial West -- for example, purchases of natural rubber. It is assumed that a slowly increasing share of imports will be carried in Bloc shipping rather than in chartered shipping.

* The term industrial West as used in this publication refers to Western Europe, US, Canada, Japan, Australia, and New Zealand.

** Interest charges were computed at the rate of 5 percent annually. For the longer term loans, there may be higher rates, but the excess over 5 percent may be reflected -- at least in some cases -- in a higher price for the imported product rather than a higher rate on the loan.

*** For the historical data on Soviet trade, credit, and gold on which these projections are based, see CIA/RR EM 63-39, The Soviet Need for Credits, December 1963, SECRET.

The pattern of credit of the last few years has been \$300 million of new credits annually to be repaid in 5 or 6 years. However, repayments and interest have grown to the extent that the net credit in 1963 is estimated at only \$61 million. If this pattern (\$300 million at 6 years) continues, the repayments and interest would grow so that net credit in 1964 would be only \$16 million (see Table 2). In 1968 the repayments would equal new credit and net credit would be a minus \$38 million, which in this case is the amount of the interest payments.

As might be expected, an increase in credit or an extension of the repayment period increases the net credit over the shorter term (see Tables 2 through 6). The following tabulation shows the cumulative net credit for the five alternative credit patterns for the years 1964-69:

| <u>Pattern of Credit</u> <u>(Million US \$)</u> | <u>Cumulative</u> <u>Net Credit</u> <u>1964-69</u> |
|--|--|
| 300 at 6 years (Table 2) | -29 |
| 500 at 6 years (Table 3) | 381 |
| 500 at 10 years (Table 4) | 1,021 |
| 500 at 15 years (Table 5) | 1,342 |
| 1,000 at 15 years (Table 6) | 3,126 |

Thus, for example, if Western credits are increased to \$500 million annually and the repayment term lengthened to 10 years, cumulative net credits for the 6 years 1964-69 would be \$1,021 million, or \$1,050 million more than if credit were not increased or were lengthened from the present pattern of \$300 million at 6 years. An increase to \$500 million without lengthening the repayment period has a much more moderate effect -- only \$410 million more net credit than the current pattern over the 6 years.

Because gold sales, other hard currency deficits, and exports are taken as the same in each pattern (see Tables 7 through 11), the determinant of the level of imports under each pattern is the amount of cumulative net credit assumed to be available. Thus new credits of \$500 million annually at 10 years would permit \$1,050 million more imports by the USSR over the next 6 years than the current credit patterns.

Given the present Soviet economic situation, it may be assumed that the new credits would be obtained only for the purchase of machinery and

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equipment. The net credits and the increased imports that they finance can thus be compared with Soviet imports of equipment from the industrial West, which were \$600 million in 1962. In the absence of expanded credit, imports of machinery and equipment might continue at about this level for the next 6 years, 1964-69, for a cumulative total of \$3,600 million. Credits of \$500 million with a 10-year repayment period would increase such imports by more than one-fourth, adding \$1,050 million to the \$3,600 million. Credits of \$1,000 million with a 15-year repayment period would increase such imports by 88 percent, adding \$3,155 million to the \$3,600 million.

II. Impact of Credits on the Soviet Economy

Soviet imports of machinery from the industrial West have increased rapidly since 1955, from \$236 million in 1956 to \$600 million in 1962 and from 41 percent of total imports from the West to 47 percent. This rapid increase in imports of machinery (an average increase of 17 percent per year) has been of considerable assistance to the Soviet program for modernizing industry and diversifying its product mix. With the best design and engineering talent absorbed in military and space research and development, many ambitious industrial projects and plans -- for example, automation -- have fallen behind. For such new products as synthetic fibers, polyethylene plastics, and urea fertilizer the USSR has depended largely on imported plants. Although the Soviet machinery industry has a massive annual output of almost all kinds of producer durables, these have not kept pace in productivity with that of comparable equipment in the industrial West. Thus the USSR has steadily increased imports of high-speed, highly productive plants in many categories -- cement plants, mining machinery, electronic-components-making machinery, textile machinery, and rolling mills, to name only a few. The USSR has a considerable comparative advantage in importing these items because of the high cost of producing additional quantities of such equipment domestically.

The current Soviet drive for increased credits and longer repayment terms stems in the first instance from the requirements of the large new program for expanding the chemical industry that was announced by Khrushchev on 9 December 1963. The highlights of the plan are production in 1970 of 70 million to 80 million tons of fertilizer (up from 20 million in 1963), 1.35 million tons of synthetic fibers (up from 0.3 million), and 3.5 million to 4.0 million tons of plastics (up from 0.6 million). On the basis of contract prices in past purchases of imported plants in these

fields, it is estimated that the equipment part of the investment in the plastics, fertilizer, and fibers programs would be valued in Western prices at some \$5 billion.* Of the \$5 billion, it is estimated that as much as \$2 billion would need to be imported from the industrial West if the program is to approach fulfillment on schedule. In the absence of additional credit, imports of \$1 billion of chemical equipment over the next 6 years probably could be financed by gold sales and by exports without squeezing other standard imports excessively. Imports of chemical equipment from the industrial West in 1962 totaled about \$88 million.

Modernization is required, however, for more than the chemical industry. Throughout Soviet industry the familiar pattern of mass production of a limited range of standard models has generated diminishing returns in the efficiency of investment and in consumer welfare. The current stage of technology depends heavily on skilled engineers and sophisticated equipment to produce a high-quality product. These resources have been concentrated mainly in military and space hardware in the USSR. For example, capacity in modern oil refineries and for the latest type of synthetic rubber also are pressing needs, as well as are textile equipment designed to handle the new fibers and machinery for fabricating plastics. In addition, however, a host of importable items in traditional fields such as metal fabricating, construction materials, and shipping probably are equally needed investment goods.

The needs of the USSR for imports of Western machinery are thus quite elastic. There is no specifiable "requirement." For all practical purposes, the more imports, the better; thus the more credit from the West, the better. That is, the quantity of Western machinery whose net marginal productivity in the USSR exceeds the interest charge on loans is very large -- much larger than any quantities of imports projected in the attached tables.

It is equally impossible to specify the amount of credit that may be denied to the USSR by a Western agreement to limit repayment terms. There is no way of estimating how much Western credits would expand in the absence of credit limits. The five cases in the attached tables are believed to blanket the practical possibilities for credit.

* This is a preliminary estimate that includes not only the price of equipment but also charges for design and other technical services and for installation.

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The additional net credits considered in the tables range up to \$3 billion over 6 years. Even the maximum amount is some small fraction of the total investment in the chemical industry that the USSR will carry out with domestic resources (25 billion rubles, or some similar magnitude of dollars). In any of these cases, each dollar's worth of equipment imported on credit provides the USSR with a resource that could be produced domestically only by reducing other activities by several rubles. The special character of this equipment is such that the highest quality of manpower and materials are required to produce it. This manpower and materials are now found chiefly in the various phases of military and space activities -- research and development, construction and installation of equipment, and production.

Finally, the imported equipment will serve more efficiently than domestic equipment to increase future exports or to reduce imports of nonmachinery items. Imported ships, synthetic rubber capacity, fertilizer plants, synthetic fiber plants, metal fabricating capacity, and logging and wood-processing machinery -- all will help to reduce imports or to increase exports.

III. Supply of Western Equipment

There appears to be little doubt that the industrial West could supply \$2 billion or more of chemical equipment over 7 years, or an average of \$300 million per year. In both 1960 and 1961 the industrial West supplied \$130 million in chemical equipment, and there is no indication that capacity was strained. Even without the US, it is likely that Western Europe and Japan could meet most of any likely Soviet demand except for some types of petrochemical equipment. However, if expansion of capacity in some Western countries were made necessary by Soviet demand -- a likely development if the full Soviet program is carried out -- competition among the Western countries in extending generous credit terms and interest rates would be correspondingly moderated.

US capacity for producing chemical equipment probably is of the same magnitude as the rest of the world. Over-all investment in the US chemical industry has been around \$1.6 billion annually for the last 3 years. Thus the US probably could supply Soviet import requirements for chemical equipment by itself if it chose. The effect of US entry into the market would be to sharpen competition among Western suppliers drastically, to reduce interest rates further, and to increase the length of credit terms.

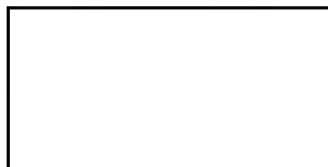
IV. The Repayments Problem

In all of the projections, except for the continuation of the present pattern, imports rise steadily after 1964. To the extent that exports fail to rise as much as projected, then imports would have to rise less. This kind of development would result in a payments problem only to the extent that the USSR misplanned its level of imports. Gold sales have been projected at \$150 million annually, which, after allowing for domestic uses, is equivalent to about \$200 million of gold production -- the expected level of output in 1965. Although production of gold could rise above this level and thus diminish the need for credits, gold mining is an industry of high and increasing marginal costs in the USSR, and sharp increases in output are not expected. Finally, freight charges and other deficit items possibly may decline as Bloc shipping grows and as domestic production of synthetics replaces such imports as natural rubber.

The projections in Tables 7 through 11 do not suggest an unmanageable repayments problem. Even a sudden halting of new credits need not create an insurmountable problem for the USSR. The halting of new credit could produce a corresponding decline in imports of machinery, for the new credits are tied to such imports. It should also be noted that a unilateral cessation of new credits by the West could cause the USSR -- as another alternative -- to feel justified in stopping repayments and interest on all old credits or threatening to do so in order to negotiate arrangements for refinancing.

Analyst:

Coord:



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Table 1

USSR: Exports to the Industrial West
1955-63 and Projected 1964-79

| Million Current US \$ | | | | |
|-----------------------|------------------|--------------|--------------|--------------|
| <u>Year</u> | <u>Petroleum</u> | <u>Grain</u> | <u>Other</u> | <u>Total</u> |
| 1955 | 45 | 48 | 451 | 544 |
| 1956 | 63 | 54 | 480 | 597 |
| 1957 | 96 | 68 | 526 | 690 |
| 1958 | 90 | 63 | 517 | 670 |
| 1959 | 153 | 99 | 603 | 855 |
| 1960 | 189 | 85 | 699 | 973 |
| 1961 | 214 | 128 | 718 | 1,060 |
| 1962 | 243 | 93 | 769 | 1,105 |
| 1963 <u>a/</u> | 260 | 40 <u>b/</u> | 807 | 1,107 |
| 1964 | 280 | | 848 | 1,128 |
| 1965 | 300 | | 890 | 1,190 |
| 1966 | 311 | | 934 | 1,245 |
| 1967 | 322 | | 981 | 1,303 |
| 1968 | 334 | | 1,030 | 1,364 |
| 1969 | 346 | | 1,082 | 1,428 |
| 1970 | 358 | | 1,136 | 1,494 |
| 1971 | 371 | | 1,193 | 1,564 |
| 1972 | 384 | | 1,252 | 1,636 |
| 1973 | 398 | | 1,315 | 1,713 |
| 1974 | 412 | | 1,381 | 1,793 |
| 1975 | 427 | | 1,450 | 1,877 |
| 1976 | 443 | | 1,522 | 1,965 |
| 1977 | 459 | | 1,598 | 2,057 |
| 1978 | 475 | | 1,678 | 2,153 |
| 1979 | 492 | | 1,762 | 2,254 |

a. The exports of Petroleum and Other for 1963 are estimated from fragmentary evidence. The projected exports of Petroleum for 1964 and 1965 are based on a study of Soviet exportable surplus and marketing potential. Beyond 1965, exports of petroleum are assumed to grow at a much slower rate, about 3.6 percent annually. All other exports are assumed to grow at 5 percent annually -- the same as the expected growth of Soviet GNP.

b. Some sales of grain were carried out in the first half of 1963 before the extent of the harvest failure became clear. The figure of \$40 million is a rough estimate.

Table 2

USSR: Projected Net Credits If New 6-Year Credits
of \$300 Million Are Available Annually

| Million Current US \$ | | | | | |
|-----------------------|--------------------|-------------------|-----------------|--------------------|-------------------------------------|
| <u>Year</u> | <u>New Credits</u> | <u>Repayments</u> | <u>Interest</u> | <u>Net Credits</u> | <u>Outstanding Debt End of Year</u> |
| 1963 | 300 | 215 | 24 | 61 | 575 |
| 1964 | 300 | 255 | 29 | 16 | 620 |
| 1965 | 300 | 260 | 31 | 9 | 660 |
| 1966 | 300 | 260 | 33 | 7 | 700 |
| 1967 | 300 | 250 | 35 | 15 | 750 |
| 1968 | 300 | 300 | 38 | -38 | 750 |
| 1969 <u>a/</u> | 300 | 300 | 38 | -38 | 750 |

a. The rows for succeeding years are identical with 1969.

Table 3

USSR: Projected Net Credits If New 6-Year Credits
of \$500 Million Are Available Annually After 1963

| Million Current US \$ | | | | | |
|-----------------------|--------------------|-------------------|-----------------|--------------------|-------------------------------------|
| <u>Year</u> | <u>New Credits</u> | <u>Repayments</u> | <u>Interest</u> | <u>Net Credits</u> | <u>Outstanding Debt End of Year</u> |
| 1963 | 300 | 215 | 24 | 61 | 575 |
| 1964 | 500 | 288 | 29 | 183 | 787 |
| 1965 | 500 | 327 | 39 | 134 | 960 |
| 1966 | 500 | 360 | 48 | 92 | 1,100 |
| 1967 | 500 | 383 | 55 | 62 | 1,217 |
| 1968 | 500 | 467 | 61 | -28 | 1,250 |
| 1969 <u>a/</u> | 500 | 500 | 62 | -62 | 1,250 |

a. The rows for succeeding years are identical with 1969.

Table 4

USSR: Projected Net Credits from the Industrial West
If New 10-Year Credits of \$500 Million
Are Available Annually After 1963

| Million Current US \$ | | | | | |
|-----------------------|-------------|------------|----------|-------------|---|
| Year | New Credits | Repayments | Interest | Net Credits | Outstanding Debt at the End of the Year |
| 1963 | 300 | 215 | 24 | 61 | 575 |
| 1964 | 500 | 255 | 29 | 216 | 820 |
| 1965 | 500 | 260 | 41 | 199 | 1,060 |
| 1966 | 500 | 260 | 53 | 187 | 1,300 |
| 1967 | 500 | 250 | 65 | 185 | 1,550 |
| 1968 | 500 | 300 | 78 | 122 | 1,750 |
| 1969 | 500 | 300 | 88 | 112 | 1,950 |
| 1970 | 500 | 350 | 98 | 52 | 2,100 |
| 1971 | 500 | 400 | 105 | -5 | 2,200 |
| 1972 | 500 | 450 | 110 | -60 | 2,250 |
| 1973 <u>a/</u> | 500 | 500 | 112 | -112 | 2,250 |

a. The rows for succeeding years are identical with 1973.

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Table 5

USSR: Projected Net Credits from the Industrial West
 If New 15-Year Credits of \$500 Million
 Are Available Annually After 1963

| Million Current US \$ | | | | | |
|-----------------------|--------------------|-------------------|-----------------|--------------------|--|
| <u>Year</u> | <u>New Credits</u> | <u>Repayments</u> | <u>Interest</u> | <u>Net Credits</u> | <u>Outstanding Debt at the End of the Year</u> |
| 1963 | 300 | 215 | 24 | 61 | 575 |
| 1964 | 500 | 238 | 29 | 233 | 837 |
| 1965 | 500 | 227 | 42 | 231 | 1,110 |
| 1966 | 500 | 210 | 56 | 234 | 1,400 |
| 1967 | 500 | 183 | 70 | 247 | 1,717 |
| 1968 | 500 | 217 | 86 | 197 | 2,000 |
| 1969 | 500 | 200 | 100 | 200 | 2,300 |
| 1970 | 500 | 233 | 115 | 152 | 2,567 |
| 1971 | 500 | 267 | 128 | 105 | 2,800 |
| 1972 | 500 | 300 | 140 | 60 | 3,000 |
| 1973 | 500 | 333 | 150 | 17 | 3,167 |
| 1974 | 500 | 367 | 158 | -25 | 3,300 |
| 1975 | 500 | 400 | 165 | -65 | 3,400 |
| 1976 | 500 | 433 | 170 | -103 | 3,467 |
| 1977 | 500 | 467 | 173 | -140 | 3,500 |
| 1978 <u>a/</u> | 500 | 500 | 175 | -175 | 3,500 |

a. The rows for succeeding years are identical with 1978.

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Table 6

USSR: Projected Net Credits from the Industrial West
 If New 15-Year Credits of \$1,000 Million
 Are Available Annually After 1964

| Million Current US \$ | | | | | |
|-----------------------|-------------|------------|----------|-------------|------------------------------|
| Year | New Credits | Repayments | Interest | Net Credits | Outstanding Debt End of Year |
| 1963 | 300 | 215 | 24 | 61 | 575 |
| 1964 | 500 | 238 | 29 | 233 | 837 |
| 1965 | 1,000 | 260 | 42 | 698 | 1,577 |
| 1966 | 1,000 | 277 | 79 | 644 | 2,300 |
| 1967 | 1,000 | 283 | 115 | 602 | 3,017 |
| 1968 | 1,000 | 350 | 151 | 499 | 3,667 |
| 1969 | 1,000 | 367 | 183 | 450 | 4,300 |
| 1970 | 1,000 | 433 | 215 | 352 | 4,867 |
| 1971 | 1,000 | 500 | 244 | 256 | 5,367 |
| 1972 | 1,000 | 567 | 268 | 165 | 5,800 |
| 1973 | 1,000 | 633 | 290 | 77 | 6,167 |
| 1974 | 1,000 | 700 | 308 | -8 | 6,467 |
| 1975 | 1,000 | 767 | 323 | -90 | 6,700 |
| 1976 | 1,000 | 833 | 335 | -168 | 6,867 |
| 1977 | 1,000 | 900 | 343 | -243 | 6,967 |
| 1978 | 1,000 | 967 | 348 | -315 | 7,000 |
| 1979 a/ | 1,000 | 1,000 | 350 | -350 | 7,000 |

a. The rows for succeeding years are identical with 1979.

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Table 7

Projected Soviet Trade with the Industrial West
Case I a/

| Million Current US \$ | | | | | | | | |
|-----------------------|------------------------|------------------------|----------------------------------|--|--------------------------------------|-------------------------|----------------|---------------|
| Year | Exports b/ (f.o.b.) | Imports b/ (f.o.b.) | Trade Deficit With West | Freight Charges and Other Deficit | Total Hard Currency Deficit | Total Financ- ing | Net Credits | Gold Sales |
| 1962 | 1,105 | 1,265 | -160 | -190 | -350 | 327 | 117 | 210 |
| 1963 <u>c/</u> | 1,107 | 1,417 <u>d/</u> | -310 | -190 | -500 | 561 | 61 | 500 |
| 1964 | 1,128 | 1,615 <u>d/</u> | -487 | -190 | -677 | 616 | 16 | 600 |
| 1965 | 1,190 | 1,159 | 31 | -190 | -159 | 159 | 9 | 150 |
| 1966 | 1,245 | 1,212 | 33 | -190 | -157 | 157 | 7 | 150 |
| 1967 | 1,303 | 1,278 | 25 | -190 | -165 | 165 | 15 | 150 |
| 1968 | 1,364 | 1,286 | 78 | -190 | -112 | 112 | -38 | 150 |
| 1969 | 1,428 | 1,350 | 78 | -190 | -112 | 112 | -38 | 150 |
| 1970 | 1,494 | 1,416 | 78 | -190 | -112 | 112 | -38 | 150 |

a. Assuming a continuation of new Western credits of \$300 million annually with a 6-year repayment period (see Table 2).

b. Beyond 1965, exports are estimated as shown in Table 1, and imports are estimated on the basis of their function in the availability of credit.

c. Exports, imports, freight charges and other deficit, net credits, and gold sales for 1963 are preliminary estimates. The excess of total financing over total deficit by \$61 million is assumed to consist of hard currency holdings that are to be expended in 1964.

d. Including \$150 million of grain purchases in 1963 and \$405 million in 1964 and excluding purchases of US grain (including rice), which total \$86 million to date. Other imports are thus assumed to be \$1,267 million in 1963 and \$1,210 million in 1964.

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Table 8

Projected Soviet Trade with the Industrial West
Case II a/

Million Current US \$

| Year | Exports b/ (f.o.b.) | Imports b/ (f.o.b.) | Trade Deficit With West | Freight Charges and Other Deficit | Total Hard Currency Deficit | Total Financ- ing | Net Credits | Gold Sales |
|---------|------------------------|------------------------|----------------------------------|--|--------------------------------------|-------------------------|----------------|---------------|
| 1962 | 1,105 | 1,265 | -160 | -190 | -350 | 327 | 117 | 210 |
| 1963 c/ | 1,107 | 1,417 d/ | -310 | -190 | -500 | 561 | 61 | 500 |
| 1964 | 1,128 | 1,782 d/ | -654 | -190 | -844 | 783 | 183 | 600 |
| 1965 | 1,190 | 1,284 | -94 | -190 | -284 | 284 | 134 | 150 |
| 1966 | 1,245 | 1,297 | -52 | -190 | -242 | 242 | 92 | 150 |
| 1967 | 1,303 | 1,325 | -22 | -190 | -212 | 212 | 62 | 150 |
| 1968 | 1,364 | 1,296 | 68 | -190 | -122 | 122 | -28 | 150 |
| 1969 | 1,428 | 1,326 | 102 | -190 | -88 | 88 | -62 | 150 |
| 1970 | 1,494 | 1,392 | 102 | -190 | -88 | 88 | -62 | 150 |

a. Assuming that new Western credits are \$500 million annually beginning in 1964 with a 6-year repayment period (see Table 3).

b. Beyond 1965, exports are estimated as shown in Table 1, and imports are estimated on the basis of their function in the availability of credit.

c. Exports, imports, freight charges and other deficit, net credits, and gold sales for 1963 are preliminary estimates. The excess of total financing over total deficit by \$61 million is assumed to consist of hard currency holdings that are to be expended in 1964.

d. Including \$150 million of grain purchases in 1963 and \$405 million in 1964 and excluding all purchases of US grain (including rice), which total \$86 million to date.

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Table 9

Projected Soviet Trade with the Industrial West
Case III a/

| Million Current US \$ | | | | | | | | |
|-----------------------|------------------------|------------------------|----------------------------------|--|--------------------------------------|-------------------------|----------------|---------------|
| Year | Exports b/ (f.o.b.) | Imports b/ (f.o.b.) | Trade Deficit With West | Freight Charges and Other Deficit | Total Hard Currency Deficit | Total Financ- ing | Net Credits | Gold Sales |
| 1962 | 1,105 | 1,265 | -160 | -190 | -350 | 327 | 117 | 210 |
| 1963 <u>c/</u> | 1,107 | 1,417 <u>d/</u> | -310 | -190 | -500 | 561 | 61 | 500 |
| 1964 | 1,128 | 1,815 <u>d/</u> | -687 | -190 | -877 | 816 | 216 | 600 |
| 1965 | 1,190 | 1,349 | -159 | -190 | -349 | 349 | 199 | 150 |
| 1966 | 1,245 | 1,392 | -147 | -190 | -337 | 337 | 187 | 150 |
| 1967 | 1,303 | 1,448 | -145 | -190 | -335 | 335 | 185 | 150 |
| 1968 | 1,364 | 1,446 | -82 | -190 | -272 | 272 | 122 | 150 |
| 1969 | 1,428 | 1,500 | -72 | -190 | -262 | 262 | 112 | 150 |
| 1970 | 1,494 | 1,506 | -12 | -190 | -202 | 202 | 52 | 150 |
| 1971 | 1,564 | 1,519 | 45 | -190 | -145 | 145 | -5 | 150 |
| 1972 | 1,636 | 1,536 | 100 | -190 | -90 | 90 | -60 | 150 |
| 1973 | 1,713 | 1,561 | 152 | -190 | -38 | 38 | -112 | 150 |
| 1974 | 1,793 | 1,641 | 152 | -190 | -38 | 38 | -112 | 150 |

a. Assuming that new Western credits are \$500 million annually beginning in 1964 with a 10-year repayment period (see Table 4).

b. Beyond 1965, exports are estimated as shown in Table 1, and imports are estimated on the basis of their function in the availability of credit.

c. Exports, imports, freight charges and other deficit, net credits, and gold sales for 1963 are preliminary estimates. The excess of total financing over total deficit by \$61 million is assumed to consist of hard currency holdings that are to be expended in 1964.

d. Including \$150 million of grain purchases in 1963 and \$405 million in 1964 and excluding all purchases of US grain (including rice), which total \$86 million to date.

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Table 10

Projected Soviet Trade with the Industrial West
Case IV a/

Million Current US \$

| Year | Exports b/ (f.o.b.) | Imports b/ (f.o.b.) | Trade Deficit With West | Freight Charges and Other Deficit | Total Hard Currency Deficit | Total Financ- ing | Net Credits | Gold Sales |
|---------|------------------------|------------------------|----------------------------------|--|--------------------------------------|-------------------------|----------------|---------------|
| 1962 | 1,105 | 1,265 | -160 | -190 | -350 | 327 | 117 | 210 |
| 1963 c/ | 1,107 | 1,417 d/ | -310 | -190 | -500 | 561 | 61 | 500 |
| 1964 | 1,128 | 1,832 d/ | -704 | -190 | -894 | 833 | 233 | 600 |
| 1965 | 1,190 | 1,381 | -191 | -190 | -381 | 381 | 231 | 150 |
| 1966 | 1,245 | 1,439 | -194 | -190 | -384 | 384 | 234 | 150 |
| 1967 | 1,303 | 1,510 | -207 | -190 | -397 | 397 | 247 | 150 |
| 1968 | 1,364 | 1,521 | -157 | -190 | -347 | 347 | 197 | 150 |
| 1969 | 1,428 | 1,588 | -160 | -190 | -350 | 350 | 200 | 150 |
| 1970 | 1,428 | 1,588 | -160 | -190 | -350 | 302 | 152 | 150 |
| 1971 | 1,494 | 1,606 | -112 | -190 | -302 | 255 | 105 | 150 |
| 1972 | 1,564 | 1,629 | -65 | -190 | -255 | 210 | 60 | 150 |
| 1973 | 1,636 | 1,656 | -20 | -190 | -210 | 167 | 17 | 150 |
| 1974 | 1,713 | 1,690 | 23 | -190 | -167 | 125 | -25 | 150 |
| 1975 | 1,793 | 1,728 | 65 | -190 | -125 | 85 | -65 | 150 |
| 1976 | 1,877 | 1,772 | 105 | -190 | -85 | 47 | -103 | 150 |
| 1977 | 1,965 | 1,822 | 143 | -190 | -47 | 10 | -140 | 150 |
| 1978 | 2,057 | 1,877 | 180 | -190 | -10 | -25 | -175 | 150 |
| 1979 | 2,153 | 1,938 | 215 | -190 | 25 | -25 | -175 | 150 |
| 1979 | 2,254 | 2,039 | 215 | -190 | 25 | -25 | -175 | 150 |

a. Assuming that new Western credits are \$500 million annually beginning in 1964 with a 15-year repayment period (see Table 5).

b. Beyond 1965, exports are estimated as shown in Table 1, and imports are estimated on the basis of their function in the availability of credit.

c. Exports, imports, freight charges and other deficit, net credits, and gold sales for 1963 are preliminary estimates. The excess of total financing over total deficit by \$61 million is assumed to consist of hard currency holdings that are to be expended in 1964.

d. Including \$150 million of grain purchases in 1963 and \$405 million in 1964 and excluding all purchases of US grain (including rice), which total \$86 million to date.

C-O-N-F-I-D-E-N-T-I-A-L

C-O-N-F-I-D-E-N-T-I-A-L

Table 11

Projected Soviet Trade with the Industrial West
Case V a/

| Year | Exports b/ (f.o.b.) | Imports b/ (f.o.b.) | Trade Deficit With West | Freight Charges and Other Deficit | Total Hard Currency Deficit | Total Financ- ing | Net Credits | Gold Sales |
|----------------|------------------------|------------------------|----------------------------------|--|--------------------------------------|-------------------------|----------------|---------------|
| 1962 | 1,105 | 1,265 | -160 | -190 | -350 | 327 | 117 | 210 |
| 1963 <u>c/</u> | 1,107 | 1,417 <u>d/</u> | -310 | -190 | -500 | 561 | 61 | 500 |
| 1964 | 1,128 | 1,832 <u>d/</u> | -704 | -190 | -894 | 833 | 233 | 600 |
| 1965 | 1,190 | 1,848 | -658 | -190 | -848 | 848 | 698 | 150 |
| 1966 | 1,245 | 1,849 | -604 | -190 | -794 | 794 | 644 | 150 |
| 1967 | 1,303 | 1,865 | -562 | -190 | -752 | 752 | 602 | 150 |
| 1968 | 1,364 | 1,823 | -459 | -190 | -649 | 649 | 499 | 150 |
| 1969 | 1,428 | 1,838 | -410 | -190 | -600 | 600 | 450 | 150 |
| 1970 | 1,494 | 1,806 | -312 | -190 | -502 | 502 | 352 | 150 |
| 1971 | 1,564 | 1,780 | -216 | -190 | -406 | 406 | 256 | 150 |
| 1972 | 1,636 | 1,761 | -125 | -190 | -315 | 315 | 165 | 150 |
| 1973 | 1,713 | 1,750 | -37 | -190 | -227 | 227 | 77 | 150 |
| 1974 | 1,793 | 1,745 | 48 | -190 | -142 | 142 | -8 | 150 |
| 1975 | 1,877 | 1,747 | 130 | -190 | -60 | 60 | -90 | 150 |
| 1976 | 1,965 | 1,757 | 208 | -190 | 18 | -18 | -168 | 150 |
| 1977 | 2,057 | 1,774 | 283 | -190 | 93 | -93 | -243 | 150 |
| 1978 | 2,153 | 1,798 | 355 | -190 | 165 | -165 | -315 | 150 |
| 1979 | 2,254 | 1,864 | 390 | -190 | 200 | -200 | -350 | 150 |

a. Assuming that new Western credits are \$500 million in 1964 and \$1,000 million annually thereafter with a 15-year repayment period (see Table 6).

b. Beyond 1965, exports are estimated as shown in Table 1, and imports are estimated on the basis of their function in the availability of credit.

c. Exports, imports, freight charges and other deficit, net credits, and gold sales for 1963 are preliminary estimates. The excess of total financing over total deficit by \$61 million is assumed to consist of hard currency holdings that are to be expended in 1964.

d. Including \$150 million of grain purchases in 1963 and \$405 million in 1964 and excluding all purchases of US grain (including rice), which total \$86 million to date.

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